Norbert Smetana April 29, 2005

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Page 1
           IN THE UNITED STATES DISTRICT COURT
1
            FOR THE DISTRICT OF MASSACHUSETTS
2
    BRAUN GmbH,
3
                   Plaintiff,
4
                                       No. 03-CV-12428 (WGY)
                -vs-
5
    RAYOVAC CORPORATION,
6
                   Defendant.
 7
 8
              Videotaped deposition through interpreter of
 9
     NORBERT SMETANA taken before CAROL CONNOLLY, CSR, CRR,
10
     and Notary Public, pursuant to the Federal Rules of
11
     Civil Procedure for the United States District Courts
12
     pertaining to the taking of depositions, at Braun GmbH,
13
     Frankfurter Strasse 145, D-61476 Kronberg im Taunus,
14
     Germany, at 10:14 a.m. on the 29th day of April, A.D.,
15
      2005.
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17
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 20
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                                                   EXHIBIT H
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April 29, 2005

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|--|--|--|--------|--|---|
| | | | Page 2 | | Page 4 |
| | There were present at the ta | aking of this | | 1 | THE VIDEOGRAPHER: Good morning. We are going on |
| 1 | osition the following counsel: | | ì | 2 | the video record at 10:14 a.m. Today's date is |
| 2 dep 3 | ROPES & GRAY, LLP by | | , | | April 29, 2005. My name is Kevin Duncan, and I am a |
| 3 | MS, LESLEY F. WOLF | • | | 3 | April 29, 2005. My flame is recognition with |
| 4 | One International Place | | | 4 | certified legal videographer in association with |
| • | Boston, Massachusetts 02110-2 | 624 | | 5 | LegaLink Chicago. The court reporter today is Ms. Carol |
| 5 | (617) 951-7000 | • | | 6 | Connolly. |
| 6 | on behalf of the Plaintiff; | | | _ | Here begins the videotaped deposition of |
| 7 | KIRKLAND & ELLIS, LLP | | · . | . 7 | Here begins the videotaped deposition of |
| _ | MR. JAMES SHIMOTA | | | -8 | Mr. Norbert Smetana taken in the matter of Braun GmbH |
| 8 | 200 East Randolph Drive | | | 9 | versus Rayovac in the United States District Court for |
| 9 | Chicago, Illinois 60601 | • | | _ | the District of Massachusetts. This deposition is being |
| 9 | (312) 861-2000 | • | ' | 10 | the District of Massacrasswin Vrophera Germany |
| 10 | • | | | 11 | held at the Braun company in Kronberg, Germany. |
| | on behalf of the Defendant | t; | | 12 | Will counsel please identify themselves for the |
| .1 | it thus Circ | | | 13 | record and state whom they represent starting with the |
| L2 | ALSO PRESENT: Mr. Uwe Siev | ers | | 1 | |
| | Braun GmbH; | | | 14 | noticing party. |
| 13 | Dr. Wolfgang Stutiu | S | | 15 | MR. SHIMOTA: Jim Shimota from Kirkland and Ellis |
| 1.4 | Ropes & Gray; | | | 16 | appearing on behalf of defendant Rayovac Corporation. |
| 14 15 | Ms. Jeanette Fröhlic | :h | | 17 | MS. WOLF: Lesley Wolf of Ropes and Gray appearing |
| 1.0 | Interpreter; | | | 1 | to belief of the Drawn company |
| 16 | • | | | 18 | on behalf of the Braun company. |
| | Mr. Kevin Duncan | | | 19 | THE VIDEOGRAPHER: Will the court reporter swear in |
| 17 | Legal Videograph | ner. | | 20 | the interpreter and also the witness. |
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| | - | | Page 3 | 3 | Page 5 |
| Ì | | N OF | 5 | 1 | JEANETTE FRÖLICH, |
| 1 . | VIDEOTAPED DEPOSITION | N OF | | 1 | |
| | NORBERT SMETANA | | , | 2 | Called as all Interpreter referry was shown to make protection. |
| .2 | April 20, 2005 | | | 3 | questions from English to German and answers from Germa |
| | April 29, 2005 | | | 1 4 | to English: |
| 3 | | PAGE | | | THE PROPERTY CAMERA ALA |
| 4 | CVANINATION BY | | | 1 5 | |
| 1 - | EXAMINATION BY: | 5 | • | 5 | |
| 1 | EXAMINATION BY: Mr. James Shimota | | | 5 | called as a witness herein, having been first duly |
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| answer. Can you do that? A Yes. Q And if during the course of the day I ask you a question which you do not understand, would you please tell me that? Again if you A Sure. I tell you. Q And, additionally, if there's ever a question that I ask you which you would like to have translated into English, would you please ask for that as well? A Yes, I will do so. Q And if during the course of the day you've given an answer, which you later determine is incomplete or inaccurate, would you also tell me that? A Yes, of course. Q And is there any reason that you can think of sitting here today that you are unable to answer my questions truthfully and accurately? A No, I feel fine today. Q Thank you. Mr. Smetana, where are you employed? A I'm employed in the R & D development and the subdivision is now called OEM products for hair care. Q And are you employed at Braun GmbH? A Yes. Page 7 Q And how long have you been employed by Braun? A Yes. Page 7 Q And how long have you been employed in the R & D group? A I've been working for this company since 19 December, 1986. That means nearly 20 years. Not really. 19, 18. Q And from December of 1986 to the present have you been continuously employed in the R & D group? A Yes, within the R & D organization. Q If you could take me briefly through where you have worked starting from beginning of your employment until today? A I think that there were three main positions | to focus more or less to your interests, and thiswas the way I came to turbo machines and fluid dynamics and stuff like this. Q What I don't know if you told me this, I apologize. What university did you study mechanical engineering at? A It was technical high school I don't know whether university is now technical university row in Darm Stadt. Q Could you please tell Darm Stadt? A D-A-R-M then S-T-A-D-T. Q And what course work did you take in order to gain knowledge as to fluid dynamics? A We had courses you can choose and others which are THE INTERPRETER: Compulsory? THE WITNESS: Compulsory, yes, and there was a mixture. Compulsory was the fluid dynamic basic course and then the lessons I choose for myself was more like turbo machinery, special points of fluid dynamics like THE INTERPRETER: Dimension analysis and disturbance calculation. THE WITNESS: That's really very special. Page 9 MR. SHIMOTA: Q Did you take courses in thermal dynamics? A Yes, thermal dynamics. That was also compulsory, yes. Q Do you are you familiar with the term chemical engineering or with the term? A Chemical Q Chemical engineering or maybe the term here is process engineer. A I'm not familiar with chemical things besides what I learned in basic school. THE INTERPRETER: In 13th grade. |
| Q And how long have you been employed by Braun? A I've been working for this company since 19 December, 1986. That means nearly 20 years. Not really. 19, 18. Q And from December of 1986 to the present have you been continuously employed in the R & D group? A Yes, within the R & D organization. Q If you could take me briefly through where you have worked starting from beginning of your employment until today? | 1 MR. SHIMOTA: Q Did you take courses in thermal 2 dynamics? 3 A Yes, thermal dynamics. That was also 4 compulsory, yes. 5 Q Do you are you familiar with the term 6 chemical engineering or with the term? 7 A Chemical 8 Q Chemical engineering or maybe the term here is 9 process engineer. 10 A I'm not familiar with chemical things besides 11 what I learned in basic school. 12 THE INTERPRETER: In 13th grade. 13 DR. STUTIUS: It's all high school. 14 THE WITNESS: It's my also combination between 15 chemical processes and engineering things. I had no 16 special lessons on this, but it was not from time to 17 time you get in connection with stuff, especially advanced technique like 19 THE INTERPRETER: Heat exchange. 19 THE WITNESS: Heat exchanges and things like this 19 Studied chemical engineering in the United States. 19 Sounds like you took the same courses I took, but that |

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Page 10 Q You mentioned I believe notices. Can you 1 Maybe we're different. 1 Α explain to me what you meant by notices? 2 They're a lot of the same courses. A Notices starts when you sit together with a 2 Did you pursue any further studies after 3 3 colleague by writing down something or then --4 receiving your degree in Darm Stadt? 4 THE INTERPRETER: It's notes. 5 A No, no further official studies. 5 THE WITNESS: Notices is different. Q And what year did you receive your degree at 6 MR. SHIMOTA: Q I understand. Are you referring to 6 7 Darm Stadt? 7 handwritten notes? 8 A When? 8 A Also, yes. 9 O Which year? Q And would it also be typed or notes that would 9 10 A In which year? That was in 1986. 10 Q So am I correct that you began working at Braun be typed out? 11 11 A Yeah. 12 after receiving your degree? Q These would be generated either during or after 12 13 A That's right, yes. 13 Q Were you employed by any other companies prior meetings with colleagues? 14 14 A That's possible, yes. 15 to coming to Braun? Q What -- if you would have a meeting with a 15 16 A No. colleague, in general, what would be your person 16 During the course of your work in the R & D 17 Q 17 practice with respect to note taking? group, did you regularly maintain a laboratory notebook? 18 A That depends. That depends on the person. If 18 A We -- not a notebook in the sense of really a 19 19 you really tried to get rather deep in an idea you book, but, of course, we had our notices not only of 20 always will have sketches, and then the sketches look 20 piece of paper but in documents, in ream books and so 21 strange as you can imagine technical sketches can look, 21 on, but I'm not sure whether you mean by lab book really 22 and -- yeah. Sometimes -- when it's more important you 22 -- binded --24 can write a summary, and this is basically done with 23 DR. STUTIUS: Bound. 24 Page 13 Page 11 1 computers. THE WITNESS: Bound collection of papers. Q When you would write a summary, would you 1 MR. SHIMOTA: Q That's what I meant, but I guess --2 2 attempt to do so soon after the meeting you had with a or how would you -- in general during the course of your 3 career, how would you keep written records of the work 4. colleague? A Not always because there's not always the time 5 that you had performed? 5 to do so, and it's not necessarily every time after a A Yeah. At the beginning the computers were not 6 so distributed then we had more paperwork in these 7 meeting. Q Okay. Well, why would you -- in what 8 simple ring folders. circumstances would you write a summary on a computer of 8 9 MS. WOLF: Binders. 9 the -- of a meeting? THE WITNESS: Sorry. In these ring binders. And 10 A In general now if this is a meeting with 10 with all the helps you can have there, and nowadays, of 11 external partners we usually write a summary. In many 11 course, basically on the computer systems and in 12 12 cases also two summaries from their side, from our side. 13 addition on these ring binders. Of course, if you are asked to do so -- and in other 13 MR. SHIMOTA: Q When you mention these ring 14 cases -- maybe it's not summary with words, it's a word 14 binders, what types of documents would be contained in 15 15 document, but also to document the results with a 16 the ring binders? calculation program, for instance. If you discuss 16 A This is more -- maybe a process depending on 17 geometry of a special part then you can also fix the 17 the different persons. Normally I -- immediately $\bar{\text{I}}$ tend 18 18 results in a calculation form and so on. to keep more or less everything, and then with the 19 Q You -- do you have e-mail now at Braun? 19 months and years you sort it out and only keep what is 20 20 A Yes. really important, what is essential points and also 21

Q And do you recall when you first gained access

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to e-mail at Braun?

A No, I'm not sure now.

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sometimes later when you are very sure that a project is

definitely finished and some lawyer time has also passed

24 then you can give away all the development documents.

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Page 14 develop or to optimize especially the blowing system Would it have been more than 5 years ago? 1 which the first shaver cleaning center has to dry the 1 I think so. Yes, we had a different system to 2 shaver or the shaving foil after the cleaning process. 2 what we use now, but that was not so common for all 3 MR. SHIMOTA: Q Do you recall -- let me askyou, 3 4 employees. I cannot figure the date exactly. 4 what did you do to optimize the blowing system? Q Were there two different types of e-mail 5 5 A I think, first of all, we had to find out what 6 systems at Braun? is really necessary to fulfill this wish of dryin a 6 A No. What I can remember prior to this official 7 7 shaver after the cleaning process, which parameters you notes system maybe only within R & D group we have 8 need to do this in a rather short time without being too 8 machines which have additional features to find out 9 9 noisy, without the need to have such a big device, telephone numbers and to leave short notes to someone 10 10 appliance. That's basically find out the parameters. else, but that's not a mail system you can compare to 11 Then in second step do the combination between these 11 12 what we know today. parameters and the right fan system, and after finding 12 Q The system that was within the R & D group, did 13 the right fan system to optimize the fan itself and 13 14 you have access to that? geometry around it from the point where the air goes --14 A I don't know because -- actually I did not use 15 can come in until it leaves the cleaning center again. 15 this. It was not perfected. Normally I took the phone 16 Q What parameters did you consider as necessary? 16 17 to give information or to ask someone. A For the first step it's important to know which 17 Q So am I correct that you personally would not 18 air flow of the volume in, maybe, liters per second, or 18 have communicated with the system in the R & D group? 19 19 in our systems we prefer to talk about liters per 20 A Yes. second. That's one point. And the second is pressure 20 Q And am I correct that you currently have a 21 terms, which pressure is necessary before an obstacle to 21 22 Lotus Notes e-mail system? 22 make this needed airflow pass. 23 A Yes. 23 Were there any other parameters that you can Q And just also to be sure, you don't know when 24 24 Page 15 you first gained access to the Lotus Notes system? think of? 1 A Other parameters have to do with these main 1 A I think it was about before the year 2000, but 2 2 points, yes, in this first step. 3 Q Okay. So it would be subsets of the two Q Aside from Lotus Notes, did Braun ever have any 4 parameters, does that make sense to you? other type of e-mail system except for the -- what we 5 5 A Yes. 6 talked about in the R & D group? 6 Q And how would you combine -- how would you A Did we start with Lotus Notes? I'm not sure. 7 combine parameters to select the appropriate fan system? 7 Q Are you aware that there is currently a patent A Yes. Here we have no rules in the physics of 8 litigation between Braun and Rayovac or Remington 9 blowers and fans in general that are the so-called --10 regarding shaver cleaning systems? THE INTERPRETER: Characteristics of --10 11 A I know this headline, yes. 11 dimensionless characteristics. Q In general are you aware that at least some of 12 12 THE WITNESS: Dimensionless characteristics, yes. the subject matter of that litigation is shaver cleaning 13 And, finally, this rules or this -- whether a system 13 14 system developed at Braun? 14 fits or not you can check with this dimensional 15 A Could you repeat it again, please? 15 characteristics if they are in a certain region, in a Q Sure. Are you in general aware that at least 16 certain rank, then you can derive the feeling or 16 part of the subject matter of the litigation is a shaver 17 statement that's okay or that's not okay for this task 17 cleaning system which was developed at Braun? 18 18 19 A Yes. Yes, I'm aware. 19 MR. SHIMOTA: Q So you would use these calculations Q And did you have any role in the development of 20

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the shaver cleaning system at Braun?

MS. WOLF: Objection as to form.

You can answer if you understand the question.

THE WITNESS: I think I could help my colleagues to

5 (Pages 14 to 17)

to essentially task various types of fan systems?

A Yes, theoretically. In this second step

because besides pressure and airflow two other main

parameters play a role. That's main diameter of a fan

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Page 18 and the RPM, the turning speed of the fan. And air is

air. We know we must not deal with water, but with air.

Q And after you had selected the fan system, you mentioned that you would optimize the geometry?

A Yes.

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Q. How would you do that?

A Maybe you can imagine that different basic types of this blowers and fan systems we have axial fans, don't want to get too close in details or radial fans where the air flow is different to an axial fan, and also so-called mixed flow sub types. You can use mixture of combination, and as well as what we finally should use here is so called -- in German it's trommelrotor.

DR. STUTIUS: Drum rotor.

THE WITNESS: Dumb rotor. It's a special sub type of a radial fan. Normal -- if it's helpful, normally radial fans are -- try to do the sketch a little bit bigger.

You have the axis here, and these are the blades. Here's the rotation. Air goes in here and passes in this direction. And if this is rather small, the heat, and the diameter is -- the relation of the diameter to the heat is big, great, then it's normal

Page 20 would use this type of fan. Did you meanin the shaver cleaning system?

A Yes. That was a result of step 2 from the combination of all parameters we can see, or I can see that this is the system which is -- which we should use in a shaver cleaner.

O And why was that?

A For me often it's easier to answer with a sketch if it's possible, yes.

Q That's fine.

A If you imagine a hair dryer, for instance, then -- I only do a sketch of the flow system. Then you have an inlet grid and then somewhere the blower, then you have the heater elements. Again an Outlet grid and maybe also a nozzle or something. And here this is a system. Here you add the energy, there's a motor. And here and here, here and here you have energy losses. Finally, there is helpful rest to dry the hair.

And this is -- this is a system which needs pressure here, and the pressure finally causes velocity and the whole thing can work. In other situations like 21 in a -- yes, let's use a shaver cleaner. Then you have 22 the head of the shaver maybe here. And what you need

basically is here high velocity. Everything else is not 24

Page 19

fan, but our special -- trommelrotor definitely looked more than this. They have this shape. Very small but high blades for the airflow which can pass like this and that's -- that's a first main characteristic. And also the shape of the blade itself incoming and outgoing angle of this blade is different and in this or that

type. MR. SHIMOTA: Q How would the angles of the blades be different?

A If you have look from the top and imagine this is outer diameter and that's inner diameter, and here, this is how it turns, then here more often you have geometries like this, maybe also up to -- sometimes also for other purposes like this, but in the -- in this case here it's often that it looks like this, the plate. And, of course, next one and the next one and so on.

And this causes a different behavior of the -what's the influence on the airflow. In this simple -in simple words with a system like this you can better create pressure, and with systems like this you are able to create velocity, but here also velocity and here also pressure, but that's the main task, and here this is the main task.

Q I understand. You said that ultimately you

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so important. Therefore, the system has no fluid 1

resistance itself, and that's the reason why at this 2 place you need a blowing system which gives you velocity 3

primarily in its main task, in combination, of course,

with a high -- an airflow which is high enough because 5

you can imagine velocity can be high if it only passes a

very small hole that it's useless, this high velocity.

You need to have a high velocity at least in this

complete area as the same with the head of the shaver.

Q And so would you combine the velocity with the actual geometry of where -- not the geometry of the fan, but the geometry of the shoulder for the shaver? Does that make sense to you?

MS. WOLF: Objection do form.

THE WITNESS: Yeah, by you understood, of course, it's important to have between on the short way between the blowing system and the head of the shaver also the right geometry, not too wide, not too narrow, to have an optimal result.

MR. SHIMOTA: Q Do you have any recollection of what the optimal geometry is or was?

A No, that's not a sharp optimum. I cannot answer by so and so many square millimeters, but the fact is if this is the area where the whole airflow has

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to pass, if it's too -- if it's too large then the velocity is too low and if the effect is not optimal. 2 If it's too narrow or too small then not sufficient air 3 can pass. Of course, then the speed is higher, but the airflow itself is reduced and this is not again optimal 5 for the whole system. So here we try to find a good 6 compromise. 7

Q And how would you reach that compromise?

A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you 13 and whether it fits, it's too much, too less, just to find the right balance.

Q Is this the type of thing you would use, for example, like an Excel spreadsheet, put in formulas and start varying the parameters to see what is optimal?

A Yes, it can be done with Excel spreadsheets. Maybe at this time I used programs based on Fortran programming language. We had these next machines at Braun at that time.

Q What kind of machines?

A Max. 24

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Q I want to -- let me try to phrase it this way. 1 Whose idea were you referring to when you say the first 2 3

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MS. WOLF: Object as to form.

THE WITNESS: Belonging to the drying system or to the whole shaver cleaning system?

MR. SHIMOTA: Q I guess I'll ask for both.

A I think the idea to produce a cleaning center was all -- could already exist when I started and the first steps here -- I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that -- my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.

Q Who started to ask you?

A Of course, Mr. Braun who has this job and in this first time I think it was the only person who gets in contact with me.

Q Did anyone else subsequently get in contact with you?

A Later after retirement of Mr. Braun.

21 And who would have gotten in contact with you 22 Q 23 later?

A Later it was Mr. Höser and also colleagues who

Page 23

Q MacIntosh? 1

A Max, that was -- from Dec Network, I think.

They're out of business. 3

MS. WOLF: Are we going to mark these?

4 MR. SHIMOTA: We will. 5

MS. WOLF: I just want the record to reflect they are not based on any examination at Braun. They're just from memory of sketches, schematics.

MR. SHIMOTA: Q Over what period of time did you work on the shaver cleaning system?

A That's not so easy to answer because it took quite a long time from the first idea to the time where they get in con -- got in contact with me to ask the first questions until you really -- Braun really finalized the product. Maybe 5 years.

Q When you say the first idea, what do you mean by the first idea?

A The first idea belongs to the first step I described before which physical data is necessary to realize the idea, yeah, which pressure do you need, which airflow do you need.

21 Q So you're referring to your mental processes, 22 is that what you mean? 23

A Pardon? Could you repeat that?

work -- that time in the small group of Herr Höser.

Q. And do you recall the names of those colleagues?

A One was Mr. Jung. Hopefully Jahn is the surname. I'm not sure.

Q Alf Jahn?

A Alf Jahn, yes. Not sure whether the second one Norbert Kreutz is from the beginning of that time involved and Jurgen Höser himself. 9

Q Do you recall any other names of people who 10 contacted you for assistance? 11

A I cannot remember other names.

Q Now you mentioned the binders that you kept 13 with your notes. Did you keep a binder related to your 14 work on the shaver cleaning system? 15

A No. Not a complete binder because that was not a major project for me.

Q Did you keep a file related to your work or did you keep any written records related to your work on the shaver cleaning system?

20 A I have a binder with the headline in the sense 21 of miscellaneous and among these blowers and blower work 22

for special blowers there is a small section about 23

cleaning center. 24

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Q During the course of your career how many pages of work do you believe you generated with respect to the shaver cleaning system?

A It was a mixture between pages and documents on the computer. So it -- if -- when I know the information is on the computer then I do not tend to produce too much paper. If I have to if I have to look it up now not more than 10 paper maximum, 10 sheets.

O 10 sheets of paper?

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- A 10 sheets of paper, yeah.
- 10 Q Do you -- well, how much information would you 11 have retained on the computer? 12

A This was special information belonging to the calculation with dimensionless characteristics and, of course, calculations belonging to special geometry here, angles, RPMs, diameters, height and in combination with the possibility to create the needed airflow.

- Q Did you keep this information on a disk or how did you store it?
- A That was stored on the computer, but in combination with old -- older programs and documentation systems.
- 22 Q Stored where on the computer, just like a 23 24 main --

Page 26 just to give away -- but these were Fortran, written in 1

- Fortran programming language. And now I have to say I
- must look it up whether there is still something left
- from this on a special -- on a special -- device --

DR. STUTIUS: Disk drive. 5

THE WITNESS: Disk drive.

MR. SHIMOTA: Q Okay. Well, in connection with this litigation, did attorneys ask you to collect

8 documents related to your work on the shaver cleaning 10 system?

A To keep some of these documents and programs was basically my own intention, yes.

Q Sure. I'm not sure if you understood the 13 question. At some point did attorneys come to you and 14 ask you for documents in your possession related to your 15 work on the shaver cleaning system? 16

A When we worked together we exchanged the 17 knowledge and the documents, and, therefore, they should 18 have what they know immediately, what we worked out 19 immediately, and, therefore, that's --20

DR. STUTIUS: I don't know if he understood your 21 question. If the attorneys approached him to transfer that information to the attorneys, right? 23

MR. SHIMOTA: Yes.

A A main storage somewhere down in the basement of the old building. Not on a personal computer. Not everything on the personal computer.

Q Do you know whether that computer still exists?

A I definitely know that it does not -- does not exist anymore.

Q Okay. And do you know what happened to it?

A It was not up to date any longer and was replaced by other machines.

Q Do you know when it was replaced?

A Not exactly. The whole system as always was several different machines and they started to give away the first one and so on until the last of the system has to leave.

Q Okay. Did you maintain any of the electronic information on a personal computer? Let me reask it to make sure.

Did you maintain any of the information related to your work on the shaver cleaning system on your personal computer?

A We had a system or a method to collect 22 important documents or calculations, also programs to calculate. As you can imagine you need a lot of time to build up calculation programs, and, therefore, it's hard

Page 29 THE WITNESS: No, not in combination with attorneys. 1

MR. SHIMOTA: Q So I want to make sure that you 2 understood me. You are aware that there is a case, a

patent litigation between Rayovac and Braun currently, 5 correct?

A Yes. Q And in connection with that -- let me just set it aside.

In the past year have attorneys come to you, attorneys from either outside law firm or within Braun itself, come to you and asked you to provide them with your documents related to -- documents you possess related to your work on the shaver cleaning system?

A No, no.

Q So would you be able to check to see if you 15 still maintained electronic information -- would you be 16 able to check to see whether you maintained -- would you 17 be able to check to see if you still had electronic 18 information related to your work on the shaver cleaning

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system on your personal computer? 20

A The Windows Explorer has such a function. 21 That's the way it could work, such function with date, 22 23 from-to.

Q And have you recently performed that search 24

locate on your computer? 1

function? A That's are the two documents I found this week. 2

A I tried, but only with few results. Q Were you able to locate any others on your 3 Q Why did you try? personal computer? 4

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MS. WOLF: That's fine. You can answer that. THE WITNESS: In combination with our meeting we had A Not so far. 5 Q You mentioned that you -- you once had a note 6

before and you ask me whether I have possibility to find documents, therefore, I started to search machine.

MR. SHIMOTA: Q That's where I think there's some confusion.

So during this past week, past week attorneys 10 asked you to look for documents, is that right? 11

A That's right, this week.

Q Had you been asked to look for documents by attorneys prior to that time?

A No, definitely not.

Q So I take it then you would not have provided any documents to attorneys related to your work on the shaver cleaning system prior to that time?

A That's right.

Q I understand. And in connection with the 21 request that you received this week, you were unable to locate documents or the electronic information

22 pertaining to your work on the shaver cleaning system,

24 is that correct?

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this ring binder. DR. STUTIUS: Ring binder.

system?

THE WITNESS: Right binder. MR. SHIMOTA: Q So -- okay. Let me see if I understand. At present you don't know where the miscellaneous binder is?

-- miscellaneous notebook had some documents in it

related to your work on the shaver cleaning system.

documents related to the work on the shaver deaning

A Here I'm not sure because so far I did not find

Does the miscellaneous notebook still have those

A This should be somewhere among lots of documents I have in my box, but not in the first row and, unfortunately, I really had no time to spend more than this computer search time to find anything.

Q To the extent those documents still do exist, we would request production of them. Set those aside.

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MS. WOLF: Objection.

MR. SHIMOTA: Q I misstated your testimony.

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During this past week you were able to locate a few results within your personal computer, is that correct?

A That's correct, few results.

Q When you say a few, can you tell me how many?

A I handed -- show you two documents, that's right? Yes, two.

Q I'll mark them as exhibits. We'll mark them as an exhibit in a second -- I can do it. They're just out of order. I'll mark as defendant's Exhibit 39, a document that does not bear a Bates number yet, but appears to be a memo from yourself to Jurgen Höser on March 26th, 1995.

(Exhibit 39 marked as requested)

A That's one of these documents, yes.

Q I'll mark as defendant's deposition Exhibit 40, a document which appears to be authored by yourself on September 12th, 1997.

(Exhibit 40 marked as requested)

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Q Are these documents that you were able to

We'll ask you about them. I will ask you about them.

I'm guess going to mark now first as defendant's Exhibit No. 37, English translation of a document bearing the Bates number B4610 to B4616.

(Exhibit 37 marked as requested)

Q I have the German version too so you don't have to worry. A document -- I'd like to mark as defendant's deposition Exhibit No. 38 the German version of B4615 to B4616 which appears to be a memo written by yourself on -- in August -- August 3rd of 1993.

(Exhibit 38 marked as requested)

Q Take whatever time you need to review the document, but if afterwards you can tell me whether you recognize it, which would be defendant's Exhibit No. 38.

A It's not so difficult to recognize because I see my handwriting here, and it's also my style of writing at that time.

Q When you say your style of writing, what do you mean by your style of writing?

A Maybe you know people who studied mechanical engineering tend to always to produce this rectangular lines.

Q Let me ask this question. Is this a document 23 -- and -- did you produce this document to lawyers in

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| 1 connection with this litigation? Let me ask let me 2 try. 3 Did you find this document in your personal 4 files and give it to lawyers? 5 A No. 6 Q At any time. 7 A No. 8 Q Doctor you see the name Dr. Jung? 9 A Uh-huh. 10 Q Do you know whether Dr. Jung has provided any 11 documents to lawyers in connection with this litigation? 12 MS. WOLF: Objection. 13 THE WITNESS: I don't know. 14 MR. SHIMOTA: Q Do you know let me ask you this. 15 Do you have any reason to believe that this 16 document would have been provided to the patent 17 department at some point in the early '90s? 18 A The early '90s? 19 MS. WOLF: Objection. 20 THE WITNESS: I can't tell you what happens with 21 this document. What I can tell you I typed it in and 22 distributed it and then took its way. 23 MR. SHIMOTA: Q And the people to whom it was 24 distributed would have been Mr. Braun, Dr. Pahl and | leader of the shaver department. He should know what is happening in this department. Q Did you know whether Dr. Pahl had personally worked on the shaver cleaning system at this time? When I say at this time, I mean approximately August of '93. A That depends on the definition of personally worked. I'm sure that he did no sketches on the big box, he did not no calculations. I cannot imagine that he did special investigations in the lab or something. Q Well, at this point in time had you seen a shaver cleaning had you actually seen a physical shaver cleaning system? A Yes, but this was more different to what appeared in the market later on. Q This was in early this was an early model? A An early model, yes. Q And at that time did you have any knowledge as to who had developed that model? A The shaver cleaning model always were in connection with Mr. Braun, yes. Q So it was your belief that Mr. Braun had developed the model of the shaver cleaning system? A Yes. |
|--|---|
| Page 35 1 Dr. Jung? 2 A Yes. 3 Q And would you have distributed it to anyone 4 else to the best of your recollection? 5 A No, I don't think so. 6 Q During or at or near this time period did you 7 ever have any discussions with attorneys at Braun 8 regarding the shaver cleaning system? 9 A No, only discussions with technical colleagues 10 from the technical department. 11 Q Did you have discussions with Dr. Pahl? 12 MS. WOLF: Objection. Regarding the shaver cleaner? 13 MR. SHIMOTA: Q I mean did you know Dr. Pahl? 14 A Yeah, because normally you know all the 15 directors here in house and, therefore, also know 16 Dr. Pahl. Q Let me ask you this. Why did you distribute 17 contribute this memo to Dr. Pahl? 18 contribute this memo to Dr. Pahl? 19 A He was not manager, supervisor of Mr. Braun and 20 Dr. Jung was my boss at that time. Q Did the at that time did you know whether 21 Dr. Pahl had any involvement with the shaver cleaning 22 system? 24 A Of course, involvement, sure. He was the | the shaver cleaning system? A Yes, it was quite obvious. I cannot tell you whether he came to me and tell me here, I developed this model. I assumed it. Q Well, in general how did you start working with Mr. Braun on the shaver cleaning system? A Okay. It's long time ago. I can't tell you how the start was exactly. Normally we had phone calls, can you give me a hint, do you have additional ideas, can we come together to discuss this and so on. Q Do you have any recollection as to how much earlier than August 3rd of '93 you would have begun working with Mr. Braun? A In my feeling we started somewhere in 1993 because especially this paper belongs to the first step I explained to find out parameters which we need to have a good drying result finally, yeah. |

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Page 38

A Yes.

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Q Am I correct this was a project that you considered important?

MS. WOLF: Objection.

You can answer.

THE WITNESS: Maybe this was the kind of milestone. At that time it was important to document that before you spend a lot of money trying this or that, and maybe a third method you should know what -- which parameters you have to know to go forwards in the right direction without losing time and money. And in this context it's helpful to have more or less shop document and to fix the main ideas, yeah, that was it.

MR. SHIMOTA: Q Do you recall -- at or near this time period do you recall whether any other milestones occurred?

A I think a second milestone after we know more or less what we need here is to in combination with maybe the second step to decide what I sketched here that this type of blower is the correct one and not different blowers they might have used before because at that time Braun also produces small hair care appliances and inside we had small blowing systems. And I can remember they -- he started to build up his model with

perfect blowing wheel itself, but also the whole

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surrounding has to be adopted, especially when you use 2

Page 40

3 blowers s like this.

O How does it -- was it adapted the way we 4 discussed earlier, the surrounding, or you mean 5 something different? 6

MS. WOLF: Objection.

THE WITNESS: What you need if you have a look from the top and, finally, air has to leave the system somewhere here, but, you know, it blows out air everywhere around the circumference, and then you have -- let me say to collect this airflow and direct it

to this main area. 13

And this is done with a kind of spiral 14 geometry. And this spiral geometry has to be good 15 enough -- not something like this, bigger, bigger, but 16 very continuous, continuously, this was one point. And 17 also the air comes in from this direction and somewhere 18 in the outer surface the whole system has an opening, 19 and also this geometry can be optimized if this is the 20 final point where the air goes in here, and then the 21

geometry up to this point, it's -- it's not bad if it 22

has the basic shape like this, and this in combination 23

with given design of the whole appliance and -- if I can 24

an axial blowing system and that was one result that the whole system can be improved when you change from the axial system to the so-called trommelrotor.

Q Do you know when that second milestone would have occurred approximately?

A Not exactly. I'm not sure whether Mr. Braun or later Jurgen Höser did this step.

Q What would you need to see in order to be able to answer my question, if anything? Let me reask that.

Are there any documents which would refresh your recollection as to when the selection of the 11 particular fan occurred? 12

A If you could show me the models and maybe in the meantime you know the time when they were built, then I can tell you this model has an axial fan and this was the first with the other system.

Q We might be able to do that. Were there any other milestones aside from the first and second -well, you described this document as a milestone. You remember a second. Were there any other milestones?

A It depends on the definition of milestone, of course. During the third development period we had a lot of detail work together with the guys in the Höser group because it's not only important to have the

remember the whole system had a special angle inside

1 that makes it a little bit more tricky. Especially this 2

point to mention perhaps one detail. After the blower

you have a high pressure and here you have the normal

pressure, the ambient pressure, and it's always helpful 5 if you have geometry here that it's not possible or not

6 so easy possible to let the airflow back then the 7

8 efficiency is not so high.

MR. SHIMOTA: Q You mentioned that a special angle,

is that a special angle in the trough to enable 10

draining? 11

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MS. WOLF: Objection. 12

MR. SHIMOTA: Q Do you recall that?

A Yes, the whole shaver is not in the correct 14 angle positioned inside, but maybe to 50 or 10 -- turned 15 in two directions, and, therefore, also the final cross 16

sectional area to provide air to the head of the shaver 17

cleaner should have --18

THE INTERPRETER: Angle or tilt. 19

THE WITNESS: The same angle, yes. 20

MR. SHIMOTA: Q Would that have been around 1987 21

where there would have been tilt to the --22

A I know these details I discussed together with 23

Jurgen Höser well as Alf Jahn, and later also with 24

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Page 42 Norbert Kreutz. 1 Q Were there any other milestones aside from what 2 we've just discussed which you can think of? 3 A No, I think if we call it milestone these are 4 the basic steps. Everything else is more or less detail 5 belonging to the tool itself and to things like here. 6 Q I think you said you worked on this project, 7 and I suppose I'm not saying continuously, but I worked 8 on this project over a period -- well, your work on the 9 shaver cleaning system took place over approximately 5 10 years, is that correct? 11 A That was my feeling before and up to now, yeah. 12 Q Would you characterize your work as difficult? 13 Not difficult. It was interesting because this 14

system is different to what we normally have in hair dryers and the rules and the formulas are a little bit different and, therefore, it was interesting for me. MS. WOLF: Jim, when you get to a good point, if we

could just take a break for a few minutes.

MR. SHIMOTA: Sure. Why don't we take one now. THE VIDEOGRAPHER: We're going off the video record of tape number 1 at 11:24 a.m.

(Off the record)

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THE VIDEOGRAPHER: We're going back on the video

With ambient temperature. 1

You mean room temperature? Yeah. That's same 0 thing.

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So is it correct that the control type that you're describing was not heating the air from the blowers?

A Yes.

Q It states in the next sentence, the drying times are, however, still too long according to Mr. Braun or the drying room result is not satisfactory.

Do you recall how long the drying times were approximately at that point?

A I can't remember this.

Q Would it have been longer than an hour?

A I don't think so. Not longer than an hour. Finally, my cleaning station at home needs approximately maybe 15 minutes for the whole process and -- 15 or 20 minutes.

Q Was -- was -- at that point in time to the best of your recollection was 15 minutes approximately the target that you and Mr. Braun were shooting for?

MS. WOLF: Objection.

THE WITNESS: I don't know exactly. 23

MR. SHIMOTA: Q It also says that or the drying

Page 43

record of at 11:37 a.m. Here continues tape 1. MR. SHIMOTA: Q If you could direct your attention again to defendant's Exhibit 38, please. I'll read in English and you can look at the German version, of course. It states -- in the title it says, principle of the prototype, actual state.

What do you mean by principle of the prototype?

A The prototype means they already had a principle sample, functional sample available and -yes. I think he showed it to me, and as I can read here he complained about noise, that it's not efficient enough.

Q So is this -- is it correct that this is a description -- at least a description of some of the operation of the prototype which Mr. Braun showed to you?

Yeah, yes, sir. Α

17 . Q It states in the first sentence, the used shaver is placed downwards with the soiled shaver head into the cleaning device and is firstly rinsed with cleaning fluid and is then dried in a coiled air stream. Do you see that?

A Yeah.

Q What did you mean by cold air stream?

result is not satisfactory.

Aside from the time length, was there anything else that you recall which was unsatisfactory?

A What can happen is that the head of the shaver was already dry in one corner and the other corner was still wet so that the distribution was not so perfect.

O And why did that affect occur?

One reason could be that the airflow was not distributed -- not evenly, but has a spot at one side and too less airflow at the other point.

Q Do you recall any other drying results which were unsatisfactory?

A No, it took too long time and maybe it was uneven, yes.

Q And it says in the second sentence that a further problem was the noise from the blower?

That's right.

O And is the noise -- would the noise be similar to what you would hear with a hair dryer today?

A Depends on the definition of similar. Because it's similar to the hair dryer when you compare it to the noise of a music instrument, for instance.

Q Well, how -- what -- to the best of your recollection what about the sound was disturbing, just

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Page 48 Page 46 the memo? 1 the volume or --1 A As I can conclude from what I see here they A Yes, also. 2 2 Q Were there any other -- aside from what's used a rather small axial blower from a hairstyler, long 3 represented in the drawing, were there any other 3 but thin diameter. Therefore, it was necessary to 4. suggestions that you made? Let me ask this. I'm sorry. 4 increase the speed of the motor, and this is always the 5 I thought maybe the question was confusing. 5 reason for higher velocity and also for what we call 6 6 A Not so easy to answer. sharp discrete peaks, something like a whistle, nervous 7 Q There are -- underneath it says improvements of 7 8 -- not nervous, but nerving -the drawing quality, then there are numbered paragraphs, 8 9 Q You heard a whistling sound? 1 through 5. Do the numbered paragraphs numbered 1 9 A Yes, always the same tone and not continuous or 10 through 5 represent suggestions that you made to 10 11 . -- even sound. 11 Mr. Braun for improving the drying in the shaver Q I understand. It also lists there, I think, 31 12 12 13 cleaning system? millimeters? A Yes. Here we try to summarize the points we 13 A That's what they found and what was feasible 14 worked out together and the points we discussed. 14 for this first models, small, small blower. 15 15 Q Okay. I mean, for example, in point 4 there's Q What dimension is the 31 millimeters referring 16 recommended it states in the case, the drying still 16 17 takes too long with these measures. The installation of to? 17 It should belong to the outer dimension of the 18 a small heater for the air stream should be discussed. 18 blower itself. Normally the blower is in a shroud, and 19 19 Now, did you suggest to Mr. Braun to -- he then what's really of interest for the function is the 20 might want to include a heater with the blower to 20 outer dimension of the blower. Because if you increase 21 21 the thickness of the wall of the shroud then that cannot improve the drying? 22 A I cannot answer with yes because it's hard to 22 23 help but makes it only thicker. remember. If you deal with hair dryers then that's a 23 Q When you say outer dimension, you mean the 24 Page 49 Page 47 known principal, but not only for me also for other all outer diameter? 1 others here in the company. .2 A Outer diameter, yes. Q Well, the participants in this meeting were 2 Q Underneath that paragraph it states improvement 3 yourself and Mr. Braun, correct? of the drying qualities. Do you see that? 4 A Yes. A Uh-huh. 5 Q So is this reflecting discussions you had with Q Was it the purpose of your meeting with 6 6 Mr. Braun to discuss how to improve the drying qualities Mr. Braun, is that correct? A Yes, but here our common ideas are written of the shaver cleaning system? down, not only my opinion. It's what we discussed 8 9 A Yes. 9 together, what we found out together. Q Did Mr. Braun ask for your advice as to how to 10 Q So point 4 -- well, is point 4 to the best of 10 improve the drying system -- excuse me. Improve the 11 11 your recollection a common idea that you had with 12 drying in the shaver cleaning system. 12 A Yes, he asked for my experience and advice. Mr. Braun? 13 13 A Maybe this belongs to patent situation. I Q And, in general, what did you advise Mr. Braun? 14 14 cannot definitely tell you now whether he already had A I think the main points are also written down 15 the idea to combine it with a heater or whether it comes 15 in this paper. The -- as I can see it now it was not 16 16 from my side because it's not so -- not so far away. quite clear how many -- which quantity of airflow they 17 17 Everyone knows if the air is a little bit hotter then really need to have a good result, and it's possible 18

13 (Pages 46 to 49)

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it's helpful to dry something.

Q You give me a lot of credit.

by everyone?

knows.

Q When you say everyone knows, what do you mean

A Everyone -- maybe everyone in this room even

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with different methods to create an airflow to find out

what you -- to first to find out what you need. And I

to find out what is a good solution and what you can

also do certain variations of this.

think I made some suggestions how this could be realized

Q Would that be represented by the drawings in

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A Hot air. Hot air is always better than cold.

Q Well, if Mr. Braun did not suggest using a heater with the fan in this meeting, is it fair to say it would have been your suggestion?

MS. WOLF: Object as to form.

THE WITNESS: If not what would have happened? MR. SHIMOTA: Q Let me ask this question. Would

there have been anyone else at this meeting aside from yourself and Mr. Braun who would have suggested using a heater with the fan?

MS. WOLF: Objection.

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THE WITNESS: In this meeting we were he and me and no one else so far.

MR. SHIMOTA: Q So it was yourself and Mr. Braun.

A Myself and Gebhard Braun I think is his first name, Gebhard Braun.

Q Is there anything which would be able to assist you in remembering whether or not the idea to use the heater would have been yours or Mr. Braun's or a joint idea?

MS. WOLF: Objection.

THE WITNESS: If you can find the paper showing the heater then I could not answer if the idea already

exists, if it was new. Basically a combination of a

Page 51

blower and a heater element was not new at all for 1 2

appliances we built, case of hair dryers.

MR. SHIMOTA: Q I understand. So I guess back right before the break we -- I asked you whether you considered your work on the shaver cleaning system to be -- I think I used term the difficult -- whether you considered your work on the shaver cleaning system to be challenging.

A Yes, it was some kind of challenging because as I told you it was not -- the system was difficult to what we normally use in hair dryers, and, therefore, it was challenging and interesting to complete the knowledge in this -- knowledge in this special direction.

Q And what was challenging about the work in particular?

A Yes. Normally you have to develop in connection with hair dryers a system which finally provides high pressure. And as I explained before, and here you need to find a system which basically gives you a high velocity. And that was the main difference

besides the whole geometry and things like that. Q And these -- were these challenges which you

24 had encountered previously in your work at Braun?

Yes. Α.

What situations have you encountered those 0 challenges?

A During these first years I did not -- I worked in the research department and here it -- my task was not only to develop axial blowers, axial fans, especially for hair dryers, but also for other blowing systems, also for kitchen machines, for ventilators and, finally, for an idea like this. And, therefore, it was the whole range I tried to occupy with my knowledge.

Q And do you know why Mr. Braun -- did Mr. Braun ever express any reason which he asked you in particular to help him with the work on the shaver cleaning system?

A That was more or less a normal practice. You start with a project for your own and after these first steps if something more complicated occurs, then youget in contact with at least so-called experts.

Q So -- I mean is it generally the case at Braun that as the design is progressing if a particular problem is encountered then an engineer will seek an expert to assist him?

A Yes.

Q And in assisting Mr. Braun to overcome these 23 problems with the prototype, you called upon your expert

Page 53

Page 52

-- the expertise that you had gained through both your education and your experience at Braun, is that correct? 2 MS. WOLF: Objection. 3

THE WITNESS: Yes.

MR. SHIMOTA: Q If you could turn back to the first page of this document. If you see listed under the second bullet point there's indicated a laminar flow element for flow rate measure. Do you see that?

A Uh-huh.

Q Tell me what your understanding of the laminar flow element is?

A This is a special measuring instrument to measure the amount of airflow passing through a system, through a pipe, small pipe.

Q What would the purpose of the laminar flow element have been in the shaver cleaning system?

A The discussion was not like this to integrate it into the system, but to use it to find out which parameters, especially which airflow would be optimal for the system. So the idea was to measure the airflow outside with this kind of instrument because if you only blow like this, you feel it, maybe you can also measure

how long it takes to dry something, but, finally, you do 23

not know how many air this really is. So you have to

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measure it and that's not so easy sometimes. 1

DR. STUTIUS: Trivial.

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THE WITNESS: Not so trivial.

MR. SHIMOTA: Q What -- when can it be difficult or nontrivial, under what circumstances can it be nontrivial?

A In general if I blow like this, nobody knows how many liters per second go through my hand now. And to know this you have to use instruments like this. There are a lot of different instruments and this is --I think a very precise instrument to find this out.

Q How did you learn about measuring or instruments for measurement of the sort we're talking about?

A I think that was part of my job here, not only theory, but also lab work and practical things.

Q So would have been some of the education you received either through your studies at the university or practical experience at Braun?

A Yes, learning on the job.

Q And I guess for testing, if you look to the next bullet point, what would have been the purpose of the one or more narrow inflow nozzles?

A The idea was if you concentrate the airflow

Q When you say relatively, how -- to your 1 recollection how closely would the holder conform to the 2 shape of the shaving head? 3

A Well, the design sign of the shaver itse If has a lot of details on here, on the left and right side. And for the cleaning center it's more or less only important to have the main outer shape in a certain length.

Q Do you know -- similar to the question I asked before. The improved air ducting, whether that would have been your idea, Mr. Braun's idea or an idea which you developed together?

A Air ducting is -- of course, he ask me what can be, what can I improve with the whole geometry to have a 14 better result finally. And there are several points as maybe I sketched here. This would be an example for a bad air ducting and that's obviously better there.

Q Okay. Do you know if -- if when you expressed these idea -- that particular idea to Mr. Braun whether he disagreed with you?

MS. WOLF: Objection.

MR. SHIMOTA: Q Let me ask it. You're right. Did Mr. Braun ever express disagreement to you

23 with -- did Mr. Braun ever express disagreement with the

directly to the point where the foil is still -- is wet and not somewhere around where you don't -- where it makes no sense for it to pass, then the efficiency can be increased. Also to direct the air flow directly to the point where it's needed.

Q That was the purpose of having the nozzles being small?

A Yes, yes.

Q Relatively or --

A If it's small then the velocity can be higher up to a certain amount. If you make it really very, very small then the opposite thing can happen, yes.

Q Under the fourth bullet point it states that the holder for shaver head with improved air ducting. What did you mean by holder for shaver head?

A Second, please.

Sure. Q A I think this belongs to geometry of the -- of where you put the shaver head inside. If this geometry is different to the shape of the shaver itself, then it can cause troubles. If this is the shaver head, and the geometry would have been like this, that's not optimal. It's better to have a more or less similar geometry around the head of the shaver.

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ideas that you presented to him?

A No, I don't think so. It was a technical discussion not a principle discussion.

Q When you say a technical discussion as opposed to a principle discussion, what do you mean?

A Technical discussion you can argument with formulas, with technical knowledge, and that's different maybe discussion about what you believe or what you do in your leisure time.

Q I see what you mean. If you look under point 1, it says, the nozzle shaped inflow on the outlet cross-cut should have the same longish, narrow shape as the shaving foils. Do you see that?

A Uh-huh.

Q Why should the nozzle shape inflow on the --15 well, first I'll ask you now, was that your opinion, 16 Mr. Braun's opinion or a joint opinion?

17 18

A I think it was a joint opinion.

Q And why was that your joint opinion?

Because it was no discussion. If this is the 20 side of the shaver head with the shaver here it's always

21 better to have the airflow from here to here and not 22

only here and here, like a spot, but on a 23

cross-sectional area, what's written down here which has 24

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more or less the same size as head of the shaver. 1

Q Same size in what respect?

The width of the shaver. There's no need to enlarge this area where the air can pass because here it makes no sense. It passes the shaver. But if it's like this then the principle is okay.

Q Okay. So basically the holder would conform tightly to the outside of the shaver head, is that what you're saying?

A Yeah, yeah.

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Q And that -- well, having the outside of the holder conform tightly to the shaver head was advantageous in terms of drying?

A Yes, because then the efficiency can be increased, yeah.

Q I think you said it's always better, is that correct?

A Yeah, if you imagine air passing in regions like here, it's more or less useless.

Q If you look in the last sentence under point 1, it says a slightly inclined inflow in the direction of the tip of the shaver head is also advantageous.

I'll ask you, was that your opinion, Mr. Braun's opinion or an opinion you developed jointly

if it comes right from the top. It's the same, not 1 optimal. Somewhere in the middle or little bit less. 2

Q So you'd need to know the shape of the hold er for the shaver head in order to answer that question, correct?

Page 60

A This question can be answered in -- when having all details together, you know.

Q Okay. Was that -- how did you come to -- how were you able to determine with Mr. Braun that the slightly incline -- use the right word. The slight incline in the inflow was advantageous?

A Again the basic idea was to increase the efficiency. And as I explained here, we looked for ways 13 that each particle inside this air flow is helpful for this purpose here, what do you want to do.

Q Well, how were the two of you able to come to the last conclusion expressed under point 1 is my auestion.

A Point 1.

Q The statement a slightly inclined inflow in direction of the tip of the shaver head is also advantageous.

A One reason as I tried to explain here, other angles are not so advantageous, therefore, it's always 24.

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with Mr. Braun?

A This comes from the discussion. Exactly I cannot tell you.

Q So this would have just arisen out of the discussions you were having with Mr. Braun?

A Yeah, yes.

Q Why was a slightly inclined inflow advantageous?

A The catches -- partly can answer this. If -again this is the shaver head from the side and this is bottom. If the airflow starts here then it has the chance what you do not want to go in this and this direction.

This is the direction you want the air to pass and this is a kind of loss. And if you have a system more like this, and this is the inflow angle which is discussed here, then it has no chance for a turn around and go this way. Then it more or less 100 percent has to take this way passing at the right position and do its work.

20 Q What angle would be optimal to achieve that 21 effect? 22

MS. WOLF: Objection. 23

THE WITNESS: It's hard to say. This is not optimal

helpful to have no additional obstacles in the airflow, 1 and this is one way to realize this. 2

Q You were able to -- were you -- I guess my question is, were you able to come to this conclusion based upon your past experience and course work?

A Of course, if you read a lot of literature and books about fluid dynamic resistance and rules about this then this is common knowledge more or less.

Q That would be a relatively select group though, people who have that knowledge, correct?

A Again please.

Q That's not -- that's a smaller portion -- a relatively small portion of the general populace who reads a lot of books on fluid mechanics?

A Maybe it's also in the lesson how --

DR. STUTIUS: Skilled in the art.

THE WITNESS: Baseless.

MR. SHIMOTA: Q Withdraw that question.

Avoid corners and edges and all things like this.

Q Under point -- direct your attention to point 2. It says the blower used must, therefore, be in a position to build up a relatively high pressure for the flow through of this nozzle/these nozzles and the

16 (Pages 58 to 61)

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Page 62

subsequent flower systems. Do you see that? 1

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Q Why was that -- why is that opinion expressed in this memo?

A As I mentioned before there is a strong connection by formula between the air velocity and the pressure. It's always easy if you have pressure to create velocity, and, therefore, if your aim is to press a certain airflow through a given geometry of a nozzle, you need a certain amount of pressure to do this, and that's basic idea which is expressed here.

Q Was that your idea, Mr. Braun's idea or a joint idea?

A This formula exists a very long time before, Bernoulli and company.

DR. STUTIUS: 1800. It's called dynamic pressure. MR. SHIMOTA: Did you think then this was -- the principle expressed there was obvious?

MS. WOLF: Objection.

THE WITNESS: Yes.

MR. SHIMOTA: Q Is that why in the next sentence because of that equation in the next sentence you say arithmetic estimates are possible?

A Yes. That belongs to the -- the dimensionless

this or that motor, maybe only to this motor series. 1

Q Okay. Do you recall what was the wattage for the motor used at that time?

A No. I cannot remember.

Q Do you recall whether there would have been any documents detailing which motor was used?

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A If they use the motor inside the air styler because we can look in the documents in the parts list which motor is -- has been inside, but I don't know now.

Q Which documents -- when you say a parts list, what are you referring to?

A That our normal documents, the company needs to -- drawings and parts list that you know how to assemble a device or new appliance. 14

Q Procurement documents, documents which 16 illustrate what the parts are for a particular device?

A Yes. Each part has a part number and a name 17 and so on, and inside the parts list you write down how 18 many of these parts you need and in the combination to 19 other parts and so on. 20

Q You said that's normal practice at Braun?

MS. WOLF: Objection.

THE WITNESS: Yes. Everywhere I think in the 23

technical company.

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characteristics. To use these formulas you need at least these four basic data like pressure, air flow, RPM 2 and diameter and so on. 3

Q Did you perform calculations on that point?

A Yes, yes. This example is a kind of calculation like this.

Q You're pointing to Exhibit 40?

Exhibit 40, yes.

Q We'll get to that in a second. Under point 2 again, states at the bottom, the performance of a small Mabuchi CF air styler is adequate. What was a small Mabuchi? 12

A There is some Mabuchi, Mabuchi, different names, Mabuchi Company producing small DC motors for a lot of different appliances and depending on how many air you need, the amount of airflow, you have to choose more or less bigger size or small one. And here the estimation was that the wattage of more or less small motor is sufficient to deliver the airflow you need.

Q Were you recommending the use of a Mabuchi motor in particular as opposed to a motor from a different manufacturer?

A That's only a statement belonging to the power 24 you need, not to the special company Mabuchi and not to

MR. SHIMOTA: Q And is that -- I mean what you do 1 in your normal practice when building a device that you 2 have a parts list? 3

A Yes.

Q If you could look under point 3 on this memo. 5 In the second sentence it says, the holder for the shaver head must be sufficiently changed so that these free cross cutters fall away at least laterally. 8

Do you see that?

A Uh-huh. 10

Q How did the holder for the shaver head in the 11 prototype need to be changed? 12

A As I understand it now that was more or less the same situation as already described here. The air can pass also in this and these areas here and, therefore, if you -- it was a suggestion if you make it smaller then it's good for efficiency.

Q I understand. I guess at least, you know, putting aside the last 2 points we haven't discussed, just generally characterizing points 1 through 3, is it the point of this memo to state that basically what you've illustrated in that drawing that the holder should be made a little bit smaller on the sides?

MS. WOLF: Objection.

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Page 68 Page 66 MR. SHIMOTA: Yes. 1 THE WITNESS: Smaller on the sides? 1 THE VIDEOGRAPHER: Here concludes tape 1. We are 2 MR. SHIMOTA: Q Tighter. 2 going off the video record at 12:23 p.m. 3 A Tighter belongs to point 3, I think. 3 Q Okay. Set that aside. Point 3 is basically (Off the record) 4 4 THE VIDEOGRAPHER: Good afternoon. We are going making the recommendation that the holder should be 5 5 back on the video record at 12:26 p.m. Here begins 6 tighter on the sides? 6 7 tape 2. A Yes, that's what I can read-here, yeah. 7 MR. SHIMOTA: Q Welcome back. If you look again at Q Do you know if that was your idea, Mr. Braun's 8 8 the document we've been discussing. Under point 5 it idea or an idea you two developed jointly? 9 9 states when using one, then it's underlined, motor for A Again I would say a common idea, a known 10 10 driving the fluid pump in the blower, the additional 11 principle. 11 cost of electronic and mechanical regulation should be Q The next sentence it states, the gap blow the 12 12 considered as both systems operate with different head should only be large enough so that the cleaning 13 13 rotational speeds and motor loads and must be inserted 14 fluid can flow away. 14 15 next to each other. A Yes. 15 Q How large or how much -- how large -- what was Do you see that? 16 16 17 A Uh-huh. an appropriate gap below the shaving head? 17 O Do you recall why you underlined -- underscored A I think this sentence belongs to this sketch 18 18 here. If -- of course, if you can imagine it's too the word one? 19 19 A Because now I cannot tell you why I underlined large then the air can pass here close to the head and 20 20 this some years ago. But it was the main idea which was it can pass here and only the airflow close to the head 21 21 discussed, one motor for both systems. 22 gives a contribution for the drying result and, 22 DR. STUTIUS: I think it's from the German because 23 therefore -- if on the other hand if it's -- what I 23 24 it's -- it's also in -- indefinite article. One could tried to remember right now, if it's too small then the Page 69 Page 67 be in German A, and it could also be a single. So if liquid will stay in this small channel here and, you want to emphasize a single you would underline one, 2 therefore, also you need an optimum size. 2 Q Did you ever determine what the optimum size A, with an eines for that emphasis. 3 3 MR. SHIMOTA: Q I understand. Why did you say it 4 4 was? was the main idea or why was it the main idea? A I think it was part of all these suggestions 5 5 MS. WOLF: Objection. 6 that they -- if they want can finally build a testing THE WITNESS: It was the main point of this idea. 7 device to find this out. 7 If you have technical discussions can we do this like Q Okay. Was the testing device ever built? 8 8 this, what can happen, if and so on. 9 I'm not sure. 9 MR. SHIMOTA: Q For this point here -- for point 5 Q Do you have any idea who would know the answer 10 10 do you recall whether that was the idea of yourself, 11 to that question? 11 Mr. Braun or a joint idea? A Of course, Mr. Braun should know. One way is 12 12 A I don't think that it was my idea because I really to build a testing device. Second possible way 13 13 always try to have separate motor for my fan. is to take this idea and already realize in another more 14 14 Q So for point 5 you -- at least it's your belief 15 sophisticated functional model. 15 that was Mr. Braun's idea? Q I understand. In the last sentence under point 16 16 3 it says that a seal of a gap would also be helpful. A At least not my idea. 17 17 Q Okay. If you could look again at point 4, now Explain what you mean by a seal of the gap. 18 18

18 (Pages 66 to 69)

that we've taken the time to go through this memo in

recollection as to whether the idea in point 4 was your

A Hard to say. Maybe a joint idea, obvious idea.

detail, I was wondering if you had any better

Did you say an obvious idea?

idea, Mr. Braun's idea or a joint idea?

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A This belongs to a detail I cannot remember

right now. Maybe if there was a special geometry for

the liquid to flow away. I cannot remember this detail

THE VIDEOGRAPHER: Counsel, can we change tapes?

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now.

Q Okay.

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| Page 70 | | Page 72 |
| 1 A Yes | 1 | maybe to this direction, and then it's it's helpful |
| 2 THE INTERPRETER: Plausible. | 2. | for the airflow to reach also to reach all points of |
| 3 DR. STUTIUS: Come to anybody mind. | 3 | this geometry. |
| 4 MR. SHIMOTA: Q I'll just ask you again the German, | 4 | Q Why was it helpful? |
| I have been a favou could just tell me | 5 | A If the opposite would have been realized like |
| 6 starting at the top, there's listed sketch 1. Can you | 6 | this and the air comes from here, this part would have |
| the transported by elected 1 or what | 7 | had a good drying and here we call it |
| tell me what is represented by sketch 12-9 what 8 principle that we discussed that corresponds to? | 8 | DR. STUTIUS: Dead zone. |
| at the state of the position of the | 9 | THE WITNESS: Dead zone with not so high airflow |
| | 10 | here in this region, and the drying result is worse and |
| 10 nozzle in relation to the nead of the shaver. The | 11 | if you turn it a little then yeah, it was our idea |
| | 12 | that we can improve it. |
| DR. STUTIUS: The duse. 13 THE WITNESS: Düse and crossed area you can see | 13 | MR. SHIMOTA: Q So the swiveling of the foil or |
| 14 here. | 14 | pivoting of the head, did that improve the drying |
| l section | 15 | process? |
| 15 DR. STUTIUS: The hatch. 16 THE WITNESS: The hatched area. | 16 | A The geometry of the shaver was given and here |
| 1 To the post of t | 17 | was just idea if you move it a little bit towards the |
| | 18 | airflow that this can be helpful. |
| I have the even thorn the dogs | 19 | Q Okay. So I understand. So did let me |
| 1 V and V and 2 | 20 | see if I can phrase this correctly. |
| The Heave or loca the same sketch from | 21 | So you came up with the idea well, you came |
| Le use apposite side but 90 | 22 | up with the idea because the fact that the shaver |
| | 23 | pivoted was a given, correct? |
| I which of the | 24 | A Yes. |
| 24 Q And what point or which of the which of the | 1 | |
| Page 71 | | Page 73 |
| 1 points does sketch 1 correspond with in your list? | 1 | Q You didn't compare did you compare a |
| 2 A As documented it's basically connected with | 2 | pivoting shaver against a nonpivoting shaver? |
| 3 point 1. | 3 | A No. As I told the geometry was given and the |
| 4 Q And for sketch 2, can you tell me basically | 4 | system was as it was. |
| 5 what is represented by sketch 2? | 5 | Q Looking at sketch 3 again, does that help you |
| 6 A Yes, here. Point 3. That basically shows that | 6 | |
| for a proper pround the chaver | 7. | |
| l | 8 | Q Do you have any do you have any idea of any |
| 1 | 9 | • • |
| the little date is that | 10 | |
| the stubble in it? | 11 | A No, I can't imagine. Maybe models but not the |
| the state of the s | 12 | document. |
| These would be below in foil? | 13 | |
| a vertex leader in the feil | 14 | A The combination, yes. |
| T don't know if you | 15 | Q Turning to the Exhibit 39 and 40, I guess |
| the second secon | 16 | |
| the transfer of the transfer o | 17 | |
| 1 2 1 | 18 | in the second se |
| 1 | 19 | |
| a LC state 2 can you explain to me | 20 | |
| 20 Q Okay. And for sketch 3, can you explain to me | 21 | |
| 21 what is represented by sketch 3? 22 A The shaver head at that time was already | 22 | |
| - Lucian was had the idea if the shaver | 1 | |
| 23 movable and, therefore, we had the idea if the shaver | - - | |
| 24 fixed in the cleaning center then the head turns to | 1 24 | 4 precise blower had been chosen by this time? |

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| | Page 74 | | Page 76 | |
|--|--|--|--|-------------|
| | | 1 9 | sure whether I showed this to colleagues . | |
| 1 | MS WOLF: Objection. | 2 | Q Okay. What calculations are occurring in | |
| 2 | THE WITNESS: That was prior to this. This you | | general in this document? | |
| | ave to decide which type and then you can calculate | 4 | A In general this is to find out whether this | |
| 4 d | etails on this. | 5 | combination of main diameter RPM need ed air volume and | |
| 5 | MR. SHIMOTA: Q So you would have selected the type | 5 | needed pressure, give a result and then you can look it | |
| 6 0 | f blower prior to March 26, 1995? | 6 | up in literature or somewhere else whether you meet kind | |
| 7 | MS WOLF: Objection. | 7 . | up in literature or somewhere else when he you much this combination | |
| 8 | THE WITNESS: That means I can continue? Surely, | 8 | of optimum with this idea, with this combination. | |
| ı ' | | 9 | Q I understand. The only thing I have left, Uwe, | |
| | MR. SHIMOTA: Q Why do you say sure, yes? | 10 | I was wondering if you could bring the nnodels in which | |
| 10 | A As I mentioned you first have to choose what | 11 | we took pictures of yesterday just so I can show them to | |
| 11 | you need and then you can continue with details. | 12 | Norbert and see if it helps him recall the date. And | |
| | MR. SHIMOTA: Q Okay. Does this document help you | 13 | that's all I have for you and I'll get you on your way | |
| 13 | recall how much prior to March of 1995 how much prior | 14 | home, enjoy your day off. I'd like for him to be able | |
| 14 | to March of '95 the blower would have been selected? | 15 | to see the models. | |
| 15 1 | | 16 | THE VIDEOGRAPHER: Would you like this to be | |
| 16 | A NO | 17 | recorded on the record? | |
| 17 | Q Do you know of any documents which would assist | 18 | MR. SHIMOTA: We are going to take a very brief | |
| 18 | you in recalling a date? | 19 | break. | |
| 19 | A No. | 20 | THE VIDEOGRAPHER: We're going off the video record | |
| 20 | Q You mentioned earlier that if you had an | 21 | of tape 2 at 12:41 p.m. | |
| 21 | opportunity to see models that might assist you in your | 22 | (Off the record) | · |
| 22 | recollection? | | THE VIDEOGRAPHER: We are going back on the video | Charles |
| 23 | A Yeah, that could be helpful to remember when we | 23 | record at 12:54 p.m. Here continues tape 2. | - Carolina |
| 24 | did the change to this special kind of blower. | 24. | record at 12.54 p.m. Tiere continues cape in | - Caretana |
| | | | D 77 | Marketon. |
| | Page 75 | | Page 77 | 40000 |
| | Q Just in general what calculations are being | 1 | MR. SHIMOTA: Q Welcome back. | Sections |
| | shown here? | 2 | Just for the record I'll note that I have | etricite. |
| 2 | A In general this is a connection between the | 3 | marked Mr. Smetana's hand drawings as Smetana Exhibit 1 | September 1 |
| 3 | geometry without mentioning all the details now and the | 4 | through Smetana Exhibit 5 just so I don't cross over | 20000 |
| 4 | speed of the fan, and you can calculate absolute and | 5 | with Kevin in the other deposition. | 2 section |
| 5 | relative velocities and so on. | 6 | (Exhibits 1 through 5 marked as requested) | 20000 |
| 6 | - I I - I of Exhibit - Taylogg It's 30 | 7 | Q That being said, Mr. Smetana, there are now on | 365,67,536 |
| 7 | Q If you just look at Exhibit I guess it's so | 8 | the table several models of the cleaning system. If you | Section 2 |
| 8 | or did I mark it as 39? | 9 | could take the time, and I can hand them to you if you'd | 35,000 |
| 9 | MS. WOLF: 40. | 10 | like, to look at them and see if any of them assist you | 800350104 |
| 10 | THE WITNESS: It's 40 here. | 11 | in determining or at least being able to say which model | 200000 |
| 11 | MR. SHIMOTA: Q Yes. Ask you if you recognize this | 12 | the second of th | 1000000 |
| 12 | document. A Yes, it's also from a program I have written. | 13 | B earlier. | average. |
| 13 | A Yes, it's also from a program I have written. | 1 | The state of the state with | |
| | | 114 | | - 6 |
| 14 | Was this a Fortran program? | 14 | this one, this is the small axial blower. I think the | |
| 14 15 | Q Was this a Fortran program? | 15 | this one, this is the small axial blower. I think the dimension is should be the 31 mentioned in the in | |
| 1 . | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran | 15 16 | dimension is should be the 31 mentioned in the in | |
| 15 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. O Was this a program that you wrote specifically | 15 16 17 | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure | |
| 15 16 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? | 15 16 17 18 | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. | |
| 15 16 17 18 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? | 15 16 17 18 19 | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of | |
| 15 16 17 18 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? A No, that's you can also use it for other systems. | 15 16 17 18 19 20 | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of blower we had available in the company. | |
| 15 16 17 18 19 20 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? A No, that's you can also use it for other systems. O And in general well, would you have | 15 16 17 18 19 20 21 | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of blower we had available in the company. Q That is at least basically the air styler, | |
| 15 16 17 18 19 20 21 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? A No, that's you can also use it for other systems. O And in general well, would you have | 15 16 17 18 19 20 2: 2: | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of blower we had available in the company. Q That is at least basically the air styler, the 31 millimeter air styler? | |
| 15 16 17 18 19 20 21 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? A No, that's you can also use it for other systems. Q And in general well, would you have submitted this document to any person or was this for your own personal use? | 15 16 17 18 19 20 2: 2: 2: | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of blower we had available in the company. Q That is at least basically the air styler, the 31 millimeter air styler? A Air styler. | |
| 15 16 17 18 19 20 21 | Q Was this a Fortran program? A Yes. It was such an example for such a Fortran program. Q Was this a program that you wrote specifically for your work on the shaver cleaning system? A No, that's you can also use it for other systems. Q And in general well, would you have submitted this document to any person or was this for your own personal use? | 15 16 17 18 19 20 2: 2: | dimension is should be the 31 mentioned in the in my report. Coming from the air styler. I'm not sure whether I've seen this before. I don't think so. What I can tell this was the smallest kind of blower we had available in the company. Q That is at least basically the air styler, the 31 millimeter air styler? A Air styler. | |

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Pa ge 80
                                                        Page 78
                                                                        MR. SHIMOTA: With that said, the only firmal
      A Think I've seen this in our model shop. Maybe
                                                                 1
                                                                      question I would -- I would make the ask you look
1
   it was this or another one also in combination with the
                                                                 2
                                                                     through your miscellaneous notebook for any additional
2
   work of Mr. Braun. It's harder to recognize the fan
                                                                 3
                                                                     documents you have pertaining to the shaver cleaning
   system immediately up close. So from the first look I'm
                                                                 4
                                                                      system. Otherwise, thanks for your time and no further
4
    not sure which fan is inside, but it's not what we
                                                                 5
    finally developed because it looks like the last or very
                                                                      questions.
                                                                  6
                                                                         THE WITNESS: Do you need the answer for this
6
                                                                  7
    last model here.
7
       Q I guess my question though -- I just want to
                                                                  8
                                                                      question?
8
                                                                         MS. WOLF: No.
    see if you can recall either a date or in which model
                                                                  9
9
                                                                         THE WITNESS: Okay.
    the special fan would have appeared first.
                                                                 10
10
                                                                         MR. SHIMOTA: You're done. Thank you.
           I think you told me that would have been prior
                                                                 11
                                                                         THE VIDEOGRAPHER: In conclusion for April 29th,
11
    to March of '95 so I figured these might help.
                                                                 12
                                                                      2005. We are going off the video record at 1:02 p.m.
12
       A As far as I can remember, this could belong to
                                                                 13
13
     the work of Mr. Braun and he was retired in somewhere --
                                                                      Thank you.
                                                                 14
14
                                                                             (Off the record)
                                                                 15
        Q May of '95.
15
        A May of '95, uh-huh, yes. So that's prior to
                                                                  16
16
     this. I don't think that radial blowing system is
                                                                  17
17
     inside. To be sure we have to open up, but that's ,
                                                                  18
18
                                                                  19
     not --
19
        MR. SIEVERS: It's not a functional model. It's not
                                                                  20
20
21 · a functional model. So maybe it's only a design model.
                                                                  21
                                                                  22
     This is from the design department.
 22
        MR. SHIMOTA: Q Well, sitting here today I guess my
                                                                  23
 23
 24 question is, do any of these models help you to remember
                                                                                                                           Page 81
                                                          Page 79
                                                                       STATE OF ILLINOIS )
     when prior to March of 1995 the special fan would have
  1
                                                                                   ) SS:
     first been used in a shaver cleaning system?
  2
                                                                       COUNTY OF COOK)
         MS. WOLF: Objection.
  3
                                                                   3
         THE WITNESS: I think it starts together with the
                                                                             The within and foregoing deposition of the
  4
                                                                    4
      fifth model here on the table. Not -- not the very
                                                                       aforementioned witness was taken before CAROL CONNOLLY,
  5
                                                                    5
      last, the one before. Here -- up here we have the
                                                                       CSR, CRR and Notary Public, at the place, date and time
   6
                                                                    6
      special inlet geometry and also the fan I described, the
                                                                        aforementioned.
   7
                                                                              There were present during the taking of the
       special position.
                                                                    8
   8
         THE VIDEOGRAPHER: Can someone move that model right
                                                                        deposition the previously named counsel.
                                                                    9
   9
                                                                              The said witness was first duly sworn and was
       there? Yeah. Okay.
                                                                   10
  10
         THE WITNESS: Maybe the other with SDL model could
                                                                        then examined upon oral interrogatories; the questions
                                                                   11
  11
                                                                        and answers were taken down in shorthand by the
       be helpful. No, the other one.
                                                                   12
  12
             For me this seems a little bit newer than this
                                                                        undersigned, acting as stenographer and Notary Public;
                                                                    13
  13
       one, and also inside here should be an axial fan. So
                                                                        and the within and foregoing is a true, accurate and
                                                                    14
   14
       from these models on the table now this is the only one
                                                                        complete record of all of the questions asked of and
                                                                    15
   15
                                                                        answers made by the forementioned witness, at the time
       which shows the fan system we finally integrated.
                                                                    16
   16
          MR. SHIMOTA: Q Okay. Let me ask just to be clear
                                                                        and place hereinabove referred to.
                                                                    17
   17
                                                                              The signature of the witness was not waived,
       -- well, this model is from much later, much later after
                                                                    18
   18
                                                                        and the deposition was submitted, pursuant to Rule 30
                                                                    19
       1995?
   19
                                                                         (e) and 32 (d) 4 of the Rules of Civil Procedure for the
          A Developed by Höser and his people.
                                                                    20
   20
                                                                         United States District Courts, to the deponent per copy
           Q So I take it these models don't help you
                                                                    21
   21
                                                                         of the attached letter.
       remember when prior to March of '95 the special fan
                                                                    22
   22
                                                                    23
        above been selected?
                                                                    24
           A It seems so.
    24
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Norbert Smetana April 29, 2005

| | B . 00 | | • | Page 84 |
|----|--|-----|---|--|
| | Page 82 | 1 | CASE: BRAUN -vs- RAYOVAC | |
| 1 | The undersigned is not interested in the within | . – | DATE TAKEN: April 29, 2005 | |
| 2 | case, nor of kin or counsel to any of the parties. | 2 | DEPONENT: NORBERT SMETANA | |
| 3 | Witness my official signature and seal as | .3 | | THE STATE OF THE S |
| 4 | Notary Public in and for Cook County, Illinois on this | 4 | | e de la constante de la consta |
| 5 | day of, A.D. 2005. | 5 | CHANGE: | |
| 6 | | 6 | REASON: | |
| 7 | | 7 | CHANGE: | |
| _ | CAROL CONNOLLY, CSR, CRR | 8 | REASON: | |
| 8 | CSR No. 084-003113 | 9 | CHANGE: | |
| | Notary Public | 10 | REASON: | |
| 9 | 230 West Monroe Street | 11 | CHANGE: | |
| 10 | Suite 1500 | ŀ | | |
| 10 | Chicago, Illinois 60606 | 12 | | |
| 11 | Thonas (312) 263-3524 | 13 | CHANGE: | |
| 12 | | 14 | REASON: | |
| 13 | | 15 | CHANGE: | |
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| 17 | 7 | 19 | CHANGE: | |
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| 20 | • | | | |
| 2: | | 22 | | |
| 2. | | 23 | | |
| 2 | | 24 | Reporter: Carol Connolly | |
| 1 | T . | | | |
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| 1 | Page 83 | 3 | | Page 85 |
| | THE HAUTED STATES DISTRICT COURT | 3 | LEGALINK - CHICAGO 230 West Monroe Street - Suite 1500 | Page 85 |
| | IN THE UNITED STATES DISTRICT COURT | 3 | 230 West Monroe Street - Suite 1500 Chicago, Illinois 60606 | Page 85 |
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